

**Notice of Allowability**

Application No.	Applicant(s)	
10/500,283	DOMEN ET AL.	
Examiner	Art Unit	
Patricia L. Hailey	1755	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to an amendment filed on April 29, 2005.
2.  The allowed claim(s) is/are 1-10.
3.  The drawings filed on June 29, 2004 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date July 22, 2005.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

Applicants' remarks and amendments, filed on April 29, 2005, have been carefully considered. No claims have been canceled or added; claims 1-10 remain pending in this application.

***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Applicants' Priority Document was filed on June 29, 2004.

***Withdrawn Objections and Rejections***

The objection to the Specification for containing informalities, stated in the previous Office Action, has been withdrawn in view of Applicants' amendments thereto.

The objection to claims 2-4 and 6-8, stated in the previous Office Action, has been withdrawn in view of Applicants' amendments to these claims.

The 112(2) rejection of claims 1-10 for being indefinite, stated in the previous Office Action, has been withdrawn in view of Applicants' amendments thereto.

**EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Haines on July 22, 2005.

The following amendments are in accordance with the Substitute Specification filed August 25, 2004, and with Applicants' amendments filed on April 29, 2005.

*The application has been amended as follows:*

- a. *On page 2 of the Specification, in line 3, before "3 eV", please insert the symbol --≥--.*
- b. *On page 7 of the Specification, in line 35, please delete the formula "(NH<sub>4</sub>)<sub>2</sub>TiF<sub>2</sub>XCl<sub>4</sub>", and insert therefor the formula --(NH<sub>4</sub>)<sub>2</sub>TiF<sub>2</sub>Cl<sub>4</sub>--.*
- c. *In line 7 of claim 10, please change "are1-6" to "are 1-6".*

Amendments (a) and (c) have been made to correct typographical errors.

Amendment (b) has been made because the originally recited/disclosed formula does not satisfy the requirement "d is 1 to 6"; see page 7, lines 32-34 of the Specification.

#### *Allowable Subject Matter*

3. Claims 1-10 are allowed.

#### *Reasons for Allowance*

4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest the photocatalyst represented by the formulae recited in the instant claims, nor does the prior art teach or suggest Applicants' claimed method for producing said photocatalyst.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Hailey whose telephone number is (571) 272-1369. The examiner can normally be reached on Mondays-Fridays.

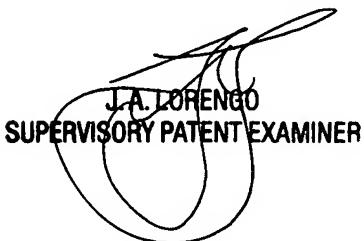
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo, can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 1700 Receptionist, whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Patricia L. Hailey / plh  
Examiner, Art Unit 1755  
July 22, 2005



J.A. LORENZO  
SUPERVISORY PATENT EXAMINER